1985 West Coast Troll Log Program

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ABSTRACT

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In 1985, the Fisheries Research Branch, Pacific Biological Station, Nanaimo, conducted a Troll Log Program on the West Coast of British Columbia including the inside waters of Georgia Strait. The program involved 103 commercial fishing boats and dealt with 2 objectives:

1) To provide Catch Per Unit Effort in different statistical areas of the West Coast of British Columbia.

2) To obtain precise information of coded-wire tagged salmon and steelhead as to the location of their capture, as well as their size, age and origin.

Fishermen mailed in their log sheets and were paid through a Standing Offer Agreement.

RESUME

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En 1985, la Direction de la recherche sur les pêches, Station de biologie du Pacifique, à Nanaimo, a réalisé un programme de collecte de données sur la pêche à la ligne traînante sur la côte ouest de la Colombie-Britannique, y comprise les eaux intérieures du détroit de Géorgie. Le programme concernait 103 bateaux de pêche commerciale et avait deux objectifs:

1) Etablier les prises par unité d'effort dans diverses zones statistiques de la côte ouest de la Colombie-Britannique.

2) Obtenir des renseignements précis sur les saumons et les truites arc-en-ciel anadromes étiquetés avec des fils codés, pour ce qui est du lieu de capture, ainsi que de leurs taille, âge et origine.

Les pêcheurs ont expédié leurs feuilles de données par la poste et ils ont été payés au moyen d'une offre permanente.

This program was basically identical to the program conducted in 1984, except for two changes:

1) The number of participating trollers fishing the West Coast of British Columbia ("outside") increased from 69 to 82 boats.

2) 21 boats fishing in the Strait of Georgia ("inside") were added to the program.

This brought the total fleet of participating log book vessels to 103 in 1985.

Again, the program dealt with 2 objectives:

1) To provide Catch Per Unit Effort (CPUE) in different statistical areas. This is expressed in Fish Per Hour.

2) To obtain precise information of coded-wire tagged salmon as to the date and location of their capture as well as their size, age and origin.

To provide for these two objectives, fishermen were requested to list the following details on their daily troll log sheets:

1. Location fished (by map location or 2 LORAN coordinates)
2. Number of hours fished (Lines in the water)
3. Number of salmon caught (by species)
4. Attaching numbered strap-tags to the heads of adipose-clipped salmon
5. Measuring and recording fork-length of adipose-clipped salmon
6. Recording flesh colour of adipose-clipped chinook salmon

For this information, the fishermen were paid the sum of $5.00 for each fishing day recorded, plus the sum of $5.00 for each adipose-clipped fish which was found, measured, strap-tagged and delivered.

Fishermen mailed their log sheets to the Biological Station, Nanaimo, in prepaid envelopes as often as possible, usually after each fishing trip. Strap-tagged heads were recovered at landing sites and in some instances from the homes of fishermen by personnel of the contracting firm of J. E. Sager and Associates, who also extracted and identified the coded-wire tags from the heads.

As in the previous year, an effort was made in the selection of boats to spread the fishing coverage fairly even along the entire coast of British Columbia to include all statistical areas. It is, however, not an accurate reflection of the actual fishing effort of the entire fishing fleet in these areas.

Statistical areas of similarity were grouped into main regions as follows:

Stat. Area	Region
1 - 5	North Coast
6 - 12	Central Coast
21 - 24	Southwest Vancouver I.
25 - 27	Northwest Vancouver I.
13 - 16	North Georgia Strait
17 - 29	South Georgia Strait

FISHING DAYS

North Coast and Central Coast

Open May 9 - May 20 = 12 days
Closed May 21 - June 30
Open July 1 - Sept 30 = 92 days

Available fishing days: 104

Southwest and Northwest Vancouver Island

Open May 7 - May 24 = 18 days
Closed May 25 - June 30
Open July 1 - Sept 30 = 92 days

Available fishing days: 110

North and South Georgia Strait

Open July 2 - July 5 = 4 days
Closed July 6 - July 10
Open July 11 - July 14 = 4 days
Closed July 15 - July 17
Open July 18 - Sept 30 = 75 days

Available fishing days: 83

Stringent species and area restrictions were in effect in the Strait of Georgia fishery to limit the catch of chinook salmon in 1985.

The minimum size limits for chinook were:

Strait of Georgia - 54 cm Fork length

North and Central Coast
Southwest and Northwest Vancouver Island - 62 cm Fork length

ADIPOSE-CLIPPED SALMON RECOVERED

No. of heads recovered

This figure is the sum of all salmon heads strap-tagged and listed by fishermen on their log sheets.

No. of heads not recovered

This figure is the total of all heads which were not recovered for various reasons, for example:

1. Fish were sold whole by fish buyers to U.S. markets.
2. A few fish plant managers were uncooperative and did not permit access to the plant.
3. Fish were landed at isolated locations and unavailable to samplers.

Heads with no pins

Some fish shed their tag soon after tagging. Others may have a damaged adipose fin and were not tagged in the first place but fishermen decided to include them as a possible marked fish anyway. Approximately 10% of all adipose-clipped salmon will not have a pin.

Heads with unreadable pins

1. "No Data" - In a few cases the code on the wire tag could not be identified. Listed as "unreadable".

2. "Lost Pin" - A few tags were lost during dissection of the head. Also listed as "unreadable".

In some instances fishermen forgot to record the information on the log sheets when a adipose marked fish was sighted and tagged. Most of these heads were recovered but are not listed in the summaries.

Other fish strap-tagged

A total of 6 sockeye and 5 pink salmon were strap-tagged due to a missing adipose fin. None of these fish contained a coded-wire tag.

5 chum salmon were strap-tagged. 4 fish were "No Pins". One fish had actually been tagged:

Release Date : April 1982
" Location : Conuma R./ Canton Cr.

Recovery Date : Aug. 19/85
" Location : Stat. Area 27

Fork length = 75 cm

1 steelhead was strap-tagged. The coded wire tag gave this information:

Release Date : April 1983
Release Location : Somass R.

Recovery Date : Aug. 1/85
Recovery Location : Stat. Area 25
Fork Length = 75 cm

Table 1 gives the CPUE by months for all species of salmon for each statistical area.

Table 2 gives the CPUE by months for all species of salmon for combined statistical areas.

Table 3 gives the recovery of coded-wire tagged CHINOOK in each statistical area for the location of their origin.

Table 4 gives the recovery of coded-wire tagged CHINOOK in combined statistical areas for the location of their origin.

Table 5 gives the recovery of coded-wire tagged COHO in each statistical area.

Table 6 gives the recovery of coded-wire tagged COHO in combined statistical areas.

Table 7 gives the percentage of different ages as well as mean fork length of U.S. and Canadian coded-wire tagged CHINOOK in combined statistical areas.

Table 8 gives the percentage of different ages as well as mean fork length of all coded-wire tagged CHINOOK in each statistical area.

Table 9 gives the origin and numbers of recovered coded-wire tagged CHINOOK from release sites in British Columbia.

Table 10 gives the origin and numbers of recovered coded-wire tagged COHO from release sites in British Columbia.

Table 11 gives the flesh-colour of coded-wire tagged CHINOOK in combined statistical areas.

Table 12 gives the average catch per boat and average time fished per boat for the years 1984 and 1985.

Figure 1 shows a map of the statistical areas in British Columbia waters.

Figure 2 shows an example of a log sheet submitted by a log-book fisherman.

Figure 3 shows the percentage of U.S. and Canadian recoveries of coded-wire tagged CHINOOK in combined statistical areas.

Figure 4 shows the percentage of U.S. and Canadian recoveries of coded-wire tagged COHO in combined statistical areas.

Figure 5 shows the percentages of different ages in coded-wire tagged CHINOOK recovered in combined statistical areas.

Figure 6 shows the average fork length of coded-wire tagged CHINOOK in combined statistical areas. All ages were combined.

Figure 7 shows the mean fork length (cm) of age of coded-wire tagged CHINOOK in combined statistical areas.

Figure 8 shows an example of overlap of fork length in different ages of coded-wire tagged CHINOOK recovered in statistical areas 1-5. While Canadian releases are made in the first year following the broodyear, the U.S. releases are often made in the second year following the broodyear.

Therefore, a Canadian 3-year-old chinook having spent 2 years in saltwater is not different from a 4-year-old American chinook as far as length of stay at sea is concerned. Although a year older there is not a significant difference in size.

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the staff of the firm of J. E. Sager and Associates, who collected 88.7% of all strap-tagged salmon listed by fishermen on their log sheets;

the following fishermen who participated in the program and made it possible:

"WESTCOAST"

Vessel	Fishermen
ALLONS	JOSEPH CADDY

Vessel	Fishermen
BALTIC SPIRIT	STANLEY SAWEL
BETTY M II	WILLIAM HAWTHORNTHWAITE
CANADIAN LADY	NORMAN BETTIS
CHARIOT	KENNETH CAMPBELL
CHIEF WAMISH	GERRY BURKHOLDER
CHRISTINA B	LAWRENCE HAINES
COURAGEOUS	GARY LIIMATTA
COWICHAN	GORDON BROOKS
CROWN	WILLIAM MCLEOD
DEANA MAR II	TOM HOPKINS
DUBY-C	TONY KARLSSON
EARL ROY	ROBERT DUNN
EARLY SPRING 1	DONALD BREEDEN
EBIE	WILLIAM FRANCE
EDNA-F	DON ASHBEE
EQUINOX	MICHAEL LEMON
EROS	GEORGE GREER
EVENING BREEZE	PENTI KIISKILA
FANNY BAY II	ROBERT TRAVERS
FLAMINGO	ROBERT GLOVER
GEORGIANA	JACK PLACE
GLADIATOR	ERIC ANTILLA
GLADYS U	RAY UBELL
HELLS BELLS	THOMAS DORSETT
HIGH STAR	WILLIAM PLACE
HOPE ISLAND	ABE VANDERHORST
ISLAND VENTURE	VINCE FANTILLO
JABBERWOCK	JOHN BOYTE
JALUN RIVER	JOHN ARMSTRONG
JOHNNY CANUCK	JOE KORSA
JR II	WALTER JOHNSON
KARM	CHRISTOPHER EARL
LOFOTEN II	WALLY SIMPSON
LORI II	ROBERT THOMPKINS
MAILE II	TOM IKEDA
MARCH GIRL	WAYNE SJOSTROM
MERILDA II	WILLY DUNAN
MISS HARRIET	DON BOOL
MW	FRED GREEN

Vessel	Fishermen
NEO	GREG GOWER
NIGEI ISLE	RICHARD JORDAN
NOBLE ISLE	GLEN MCWILLIAM
NORMAN P	VILNIS KAJACS
NORTH CAPE	OTTO CHUEDEN
NORTHERN OCEAN	GARY CADORIN
NORTHERN STAR	DAVE HARDIE
NORTH ISLAND STAR	TOM RUSSEL
NORZONE	BRUCE EVANS
NOW THEN	ALAN CARL
OCEAN PRINCESS	JOSEPH RUNOWSKI
OCEAN PRODUCER	FORD MCCLEOD
OCEAN RAE	LARRY MAXWELL
OCEAN TROLLER	THOMAS EARL
OCEAN TWILIGHT	ERIC OSTROM
OCEAN VOYAGER	JOHN WILLSON
PACIFIC BREEZE	RICHARD JONES
PACIFIC INVADER	DAVE SMITH
PACIFIC KING	BRUCE ROBERTS
PRINCE OF DENMARK	RICHARD ROUSSIN
QUEST II	JOHN NICHOLSON
RAVEN SPIRIT	KEN MONROE
REMBRANDT II	BRIAN FORBES
ROCELIA B	ALBERT COOTES
ROSALIE I	MARK FREDHEIM
ROSAN	GLENN MORRIS
SCOTTIE BAY	WILLIAM ELGIE
SEABEAM	DICK WILLIAMS
SEASTAR III	BRENT KORSA
SILVER TIDE	RAY SORHEIM
SONORA II	JOSEPH GARCIA
SUMMIT	ROBERT SWEET
SWEET CHANGES	ROBERT EDWARDS
TA-NIKA	UDO BILLING
THERESA N	BEN NOOKEMIS
VIRGO	JIM WALTERS
WESCO	DAVE WILLIAMS
WESTFORELAND	PATRICK FORREST
WESTPOINT	JOHN DISNEY
WILDEB	ROBERT VIERECK
WYVERN	EDWIN LANDALE
ZAYAS	TEUNIS WESTBROOK

"GEORGIA STRAIT"

Vessel	Fishermen
BLUE MISTRESS	JOHN HAWKINS
CAROLYN	STAN GAMBLE
ELVERA II	ROSS WEBB
FURY	OSCAR VAES
KAHLUA	ALFRED WESTERGAARD
LIBERTY BELL	HELMUT BOSE
LOREAN	BILL MORGAN
LUCKY LADY IV	NEIL GUSTAFSON
MAR CHRIS	RON SILVEY
NANAIMO CHIEF	ROBERT CHAMBERS
NUYIMS	SAM HENDERSON
OFFSHORE I	DON HELLER
RAINBOW X	ROBERT OSET
ROCK 'N' ROLL II	CHARLES HARRIS
ROONA	HARRY KERTON
ROSA MAY	JIM NEWMAN
SEAL BAY	PETER WILSON
SILVER STAR NO. 1	TED EDWARDS
STRAIT LIFE	BOB VEZINA
TAG ALONG	LARRY GOUTHRO
VELLAR	FRED DAVIES

Table 1. 1985 West coast troll log program. Report of catch per unit effort by month and area.

Area 1	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	1053.00	277	0.26	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	8134.00	2347	0.29	21885	2.69	1112	0.14	34352	4.22	2203	0.27
Aug	5106.00	2710	0.53	6330	1.24	582	0.11	27974	5.48	3406	0.67
Sept	3539.00	2281	0.64	2067	0.58	18	0.01	842	0.24	3128	0.88
TOTAL	17832.00	7615		30282		1712		63168		8737	

Area 2E	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	89.00	19	0.21	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	1137.00	870	0.77	3832	3.37	207	0.18	1908	1.68	109	0.10
Aug	381.00	38	0.10	1472	3.86	177	0.46	987	2.59	46	0.12
Sept	26.00	2	0.07	22	0.79	0	0.00	0	0.00	5	0.18
TOTAL	1635.00	929		5326		384		2895		160	

Area 2W	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	43.50	7	0.16	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	1873.00	1416	0.76	2030	1.08	608	0.32	4939	2.64	314	0.17
Aug	2253.50	3712	1.65	986	0.44	965	0.43	4280	1.90	1830	0.81
Sept	2071.00	3053	1.47	221	0.11	6	0.00	183	0.09	564	0.27
TOTAL	6241.00	8188		3237		1579		9402		2708	

Table 1 (cont'd)

Area 3	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	23.00	1	0.04	22	0.96	19	0.83	450	19.57	14	0.61
Aug	111.50	28	0.25	117	1.05	144	1.29	2254	20.22	52	0.47
TOTAL	134.50	29		139		163		2704		66	

Area 4	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	13.00	5	0.38	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	135.50	34	0.25	393	2.90	2	0.01	274	2.02	22	0.16
Aug	259.00	48	0.19	991	3.83	7	0.03	182	0.70	14	0.05
Sept	18.00	9	0.50	5	0.28	0	0.00	3	0.17	0	0.00
TOTAL	425.50	96		1389		9		459		36	

Area 5	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	11.00	1	0.09	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	296.50	74	0.25	1141	3.85	2	0.01	406	1.37	21	0.07
Aug	14.00	1	0.07	13	0.93	0	0.00	25	1.79	1	0.07
TOTAL	321.50	76		1154		2		431		22	

Table 1 (cont'd)

Area 6	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	92.00	75	0.82	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	543.50	375	0.69	862	1.59	3	0.01	234	0.43	30	0.06
Aug	189.00	54	0.29	476	2.52	0	0.00	107	0.57	9	0.05
Sept	9.00	2	0.22	83	9.22	0	0.00	0	0.00	1	0.11
TOTAL	833.50	506		1421		3		341		40	

Area 7	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	95.50	24	0.25	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	1226.50	660	0.54	972	0.79	16	0.01	1689	1.38	923	0.75
Aug	864.00	486	0.56	1435	1.66	6	0.01	1423	1.65	416	0.48
Sept	261.50	53	0.20	170	0.65	1	0.00	35	0.13	39	0.15
TOTAL	2447.50	1223		2577		23		3147		1378	

Area 8	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	117.00	27	0.23	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	223.50	45	0.20	336	1.50	5	0.02	582	2.60	377	1.69
Aug	134.00	8	0.06	287	2.14	1	0.01	1003	7.49	412	3.07
Sept	29.00	7	0.24	20	0.69	0	0.00	20	0.69	9	0.31
TOTAL	503.50	87		643		6		1605		798	

Table 1 (cont'd)

Area 9	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	44.00	4	0.09	58	1.32	328	7.45	230	5.23	182	4.14
Aug	32.00	16	0.50	91	2.84	10	0.31	159	4.97	34	1.06
TOTAL	76.00	20		149		338		389		216	

Area 10	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	31.00	17	0.55	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	849.00	180	0.21	1203	1.42	755	0.89	1925	2.27	2867	3.38
Aug	261.00	53	0.20	501	1.92	246	0.94	3242	12.42	185	0.71
Sept	32.00	6	0.19	6	0.19	0	0.00	16	0.50	1	0.03
TOTAL	1173.00	256		1710		1001		5183		3053	

Area 11	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	237.50	136	0.57	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	2748.00	680	0.25	7523	2.74	851	0.31	7265	2.64	7939	2.89
Aug	2056.00	321	0.16	2645	1.29	1502	0.73	54632	26.57	1383	0.67
Sept	403.00	102	0.25	729	1.81	3	0.01	979	2.43	303	0.75
TOTAL	5444.50	1239		10897		2356		62876	5	9625	

Table 1 (cont'd)

Area 12	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	16.00	2	0.13	27	1.69	1	0.06	15	0.94	1	0.06
Aug	222.50	30	0.13	27	0.12	380	1.71	7005	31.48	76	0.34
Sept	55.00	2	0.04	11	0.20	9	0.16	712	12.95	16	0.29
TOTAL	293.50	34		65		390		7732		93	

Area 21	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	926.50	932	1.01	6407	6.92	1349	1.46	1052	1.14	5	0.01
Aug	1210.50	481	0.40	3796	3.14	5060	4.18	3173	2.62	8	0.01
Sept	1594.00	915	0.57	5301	3.33	0	0.00	741	0.46	3	0.00
TOTAL	3731.00	2328		15504		6409		4966		16	

Area 23	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	2414.50	2421	1.00	0	0.00	0	0.00	0	0.00	4	0.00
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	2160.00	3009	1.39	5547	2.57	2958	1.37	751	0.35	53	0.02
Aug	3063.00	1774	0.58	12244	4.00	8701	2.84	1450	0.47	65	0.02
Sept	1558.00	756	0.49	4586	2.94	0	0.00	58	0.04	3	0.00
TOTAL	9195.50	7960		22377		11659		2259		125	

Table 1 (cont'd)

Area 24	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	784.00	633	0.81	0	0.00	0	0.00	0	0.00	5	0.01
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	2080.50	1542	0.74	8365	4.02	1806	0.87	2308	1.11	229	0.11
Aug	1430.50	971	0.68	2909	2.03	6827	4.77	3860	2.70	68	0.05
Sept	192.50	91	0.47	344	1.79	0	0.00	163	0.85	1	0.01
TOTAL	4487.50	3237		11618		8633		6331		303	

Area 25	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	146.50	89	0.61	0	0.00	0	0.00	0	0.00	3	0.02
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	1683.50	409	0.24	6126	3.64	2707	1.61	3125	1.86	732	0.43
Aug	2726.00	601	0.22	5141	1.89	8241	3.02	23330	8.56	327	0.12
Sept	679.50	169	0.25	1671	2.46	54	0.08	1029	1.51	3	0.00
TOTAL	5235.50	1268		12938		11002		27484		1065	

Area 26	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	1074.00	939	0.87	0	0.00	0	0.00	0	0.00	6	0.01
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	1022.00	370	0.36	4355	4.26	169	0.17	701	0.69	594	0.58
Aug	903.50	304	0.34	2180	2.41	4082	4.52	3673	4.07	214	0.24
Sept	261.00	175	0.67	255	0.98	0	0.00	38	0.15	3	0.01
TOTAL	3260.50	1788		6790		4251		4412		817	

Table 1 (cont'd)

Area 27	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
April	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
May	887.50	357	0.40	0	0.00	0	0.00	0	0.00	64	0.07
June	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
July	2947.50	475	0.16	4637	1.57	3335	1.13	12229	4.15	6885	2.34
Aug	1970.00	275	0.14	2964	1.50	6452	3.28	29672	15.06	1536	0.78
Sept	496.00	136	0.27	355	0.72	0	0.00	936	1.89	136	0.27
TOTAL	6301.00	1243		7956		9787		42837		8621	
GRAND	69572.00	38122		136172		59707		248621		37879	

STRAIT OF GEORGIA

Area 13	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	437.00	832	1.90	1219	2.79	234	0.54	72	0.16	1	0.00
Aug	434.00	354	0.82	263	0.61	940	2.17	1519	3.50	5	0.01
Sept	124.00	18	0.15	36	0.29	50	0.40	1525	12.30	21	0.17
TOTAL	995.00	1204		1518		1224		3116		27	

Area 14	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	2110.00	2470	1.17	11598	5.50	19	0.01	123	0.06	0	0.00
Aug	852.50	2175	2.55	2506	2.94	18	0.02	72	0.08	0	0.00
Sept	316.50	0	0.00	1246	3.94	0	0.00	0	0.00	0	0.00
TOTAL	3279.00	4645		15350		37		195		0	

Table 1 (cont'd)

Area 15	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	493.50	855	1.73	2744	5.56	0	0.00	30	0.06	0	0.00
Aug	511.00	1315	2.57	1274	2.49	3	0.01	26	0.05	2	0.00
Sept	6.00	0	0.00	32	5.33	0	0.00	0	0.00	0	0.00
TOTAL	1010.50	2170		4050		3		56		2	

Area 16	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	200.50	306	1.53	540	2.69	0	0.00	26	0.13	0	0.00
Aug	238.00	197	0.83	200	0.84	133	0.56	244	1.03	0	0.00
Sept	100.50	5	0.05	34	0.34	9	0.09	276	2.75	0	0.00
TOTAL	539.00	508		774		142		546		0	

Area 17	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	140.00	163	1.16	252	1.80	0	0.00	3	0.02	0	0.00
Aug	41.00	101	2.46	32	0.78	0	0.00	39	0.95	0	0.00
Sept	99.00	0	0.00	100	1.01	2	0.02	26	0.26	6	0.06
TOTAL	280.00	264		384		2		68		6	

Table 1 (cont'd)

Area 18	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	6.00	0	0.00	9	1.50	2	0.33	1	0.17	0	0.00
Aug	113.00	49	0.43	15	0.13	64	0.57	303	2.68	0	0.00
Sept	57.00	0	0.00	0	0.00	5	0.09	103	1.81	0	0.00
TOTAL	176.00	49		24		71		407		0	

Area 29	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	513.50	19	0.04	864	1.68	1899	3.70	17	0.03	0	0.00
Aug	688.00	80	0.12	203	0.30	1464	2.13	1778	2.58	0	0.00
Sept	277.00	0	0.00	73	0.26	283	1.02	2768	9.99	0	0.00
TOTAL	1478.50	99		1140		3646		4563		0	

GRAND	7758.00	8939		23240		5125		8951		35	

Table 2. 1985 West coast troll log program. Report of catch per unit effort by month and area.

General Area : North

Area 1-5	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
May	1209.50	309	0.26	0	0.00	0	0.00	0	0.00	0	0.00
July	11599.00	4742	0.41	29303	2.53	1950	0.17	42329	3.65	2683	0.23
Aug	8125.00	6537	0.80	9909	1.22	1875	0.23	35702	4.39	5349	0.66
Sept	5656.00	5345	0.95	2315	0.41	24	0.00	1028	0.18	3697	0.65
TOTAL	26589.50	16933		41527		3849		79059		11729	

General Area : Central

Area 6-12	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
May	573.00	279	0.49	0	0.00	0	0.00	0	0.00	0	0.00
July	5650.50	1946	0.34	10981	1.94	1959	0.35	11940	2.11	12319	2.18
Aug	3758.50	968	0.26	5462	1.45	2145	0.57	67571	17.98	2515	0.67
Sept	789.50	172	0.22	1019	1.29	13	0.02	1762	2.23	369	0.47
TOTAL	10771.50	3365		17462		4117		81273		15203	

General Area : Southwest Vancouver Island

Area 21-24	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
May	3198.50	3054	0.95	0	0.00	0	0.00	0	0.00	9	0.00
July	5167.00	5483	1.06	20319	3.93	6113	1.18	4111	0.80	287	0.06
Aug	5704.00	3226	0.57	18949	3.32	20588	3.61	8483	1.49	141	0.02
Sept	3344.50	1762	0.53	10231	3.06	0	0.00	962	0.29	7	0.00
TOTAL	17414.00	13525		49499		26701		13556		444	

Table 2 (cont'd)

General Area : Northwest Vancouver Island

Area 25-27	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
May	2108.00	1385	0.66	0	0.00	0	0.00	0	0.00	73	0.03
July	5653.00	1254	0.22	15118	2.67	6211	1.10	16055	2.84	8211	1.45
Aug	5599.50	1180	0.21	10285	1.84	18775	3.35	56675	10.12	2077	0.37
Sept	1436.50	480	0.33	2281	1.59	54	0.04	2003	1.39	142	0.10
TOTAL	14797.00	4299		27684		25040		74733		10503	
TOTAL AREAS 1-27	69572.00	38122		136172		59707		248621		37879	

STRAIT OF GEORGIA

General Area : North Strait of Georgia

Area 13-16	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	3241.00	4463	1.38	16101	4.97	253	0.08	251	0.08	1	0.00
Aug	2035.50	4041	1.99	4243	2.08	1094	0.54	1861	0.91	7	0.00
Sept	547.00	23	0.04	1348	2.46	59	0.11	1801	3.29	21	0.04
TOTAL	5823.50	8527		21692		1406		3913		29	

General Area : South Strait of Georgia

Area 17-29	Hours fished	Chinook		Coho		Sockeye		Pink		Chum	
		No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour	No. kept	Per hour
July	659.50	182	0.28	1125	1.71	1901	2.88	21	0.03	0	0.00
Aug	842.00	230	0.27	250	0.30	1528	1.81	2120	2.52	0	0.00
Sept	433.00	0	0.00	173	0.40	290	0.67	2897	6.69	6	0.01
TOTAL	1934.50	412		1548		3719		5038		6	
TOTAL AREAS 13-29	7758.00	8939		23240		5125		8951		35	

Table 3. 1985 West coast troll log program. Recovery of coded-wire tags - Chinook.

Stat. Area	B.C.	Washington	Oregon	Alaska	California	Idaho	No pin in head	Pin unreadable	Head not recovered	Total heads delivered
1	37	26	49	6	-	2	20	1	9	150
2E	11	7	10	-	-	-	6	-	1	35
2W	22	19	36	-	-	1	10	-	9	97
3	1	-	-	-	-	-	-	-	-	1
4	-	2	2	-	-	-	1	-	-	5
5	-	-	-	-	-	-	-	-	-	-
1-5	71	54	97	6		3	37	1	19	288
6	6	1	4	-	-	-	-	-	1	12
7	20	2	2	1	-	-	3	-	3	31
8	2	-	-	-	-	-	-	-	-	2
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	1	1
11	8	6	7	-	-	-	1	-	4	26
12	-	-	-	-	-	-	-	-	-	-
6-12	36	9	13	1	-	-	4	-	9	72
25	7	14	7	-	-	-	-	-	3	31
26	10	3	12	-	1	-	3	2	4	35
27	4	3	5	-	-	-	-	-	2	14
25-27	21	20	24	-	1	-	3	2	9	80
21	6	14	2	-	-	-	5	-	3	30
23	32	48	17	-	1	-	6	1	22	127
24	9	25	11	-	2	-	5	2	5	59
21-24	47	87	30	-	3	-	16	3	30	216
13	-	-	-	-	-	-	-	-	-	-
14	7	-	-	-	-	-	7	-	1	15
15	45	2	-	-	-	-	8	-	-	55
16	2	-	-	-	-	-	-	-	-	2
13-16	54	2	-	-	-	-	15	-	1	72
17	-	-	-	-	-	-	1	-	-	1
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-
17-29	-	-	-	-	-	-	1	-	-	-

Table 4. 1985 West coast troll log program. Recovery of coded-wire tags - chinook.

	North coast area 1-5	Central coast area 6-12	Northwest Vancouver Is. area 25-27	Southwest Vancouver Is. area 21-24	North Georgia St. area 13-16	South Georgia St. area 17-29	Total
Total chinook heads delivered:	288	72	80	216	72	1	729
No. chinook heads not recovered:	19	9	9	30	1	0	68
No. chinook heads with "no pin"	37	4	3	16	15	1	76
No. chinook heads with pin "unreadable"	1	0	2	3	0	0	6
No. chinook heads with readable pins:	231	59	66	167	56	0	579
Origin of tagged chinook with readable pins:							
British Columbia	71	36	21	47	54	0	229
U.S. Washington	54	9	20	87	2	0	172
U.S. Oregon	97	13	24	30	0	0	164
U.S. Alaska	6	1	0	0	0	0	7
U.S. California	0	0	1	3	0	0	4
U.S. Idaho	3	0	0	0	0	0	3
TOTAL	231	59	66	167	56	0	579
Percent Canadian tags:	30.7	61.0	31.8	28.1	96.4	-	
Percent U.S. tags:	69.3	39.0	68.2	71.9	3.6	-	

Table 5. 1985 West coast troll log program. Recovery of coded wire tags - Coho.

Stat. Area	B.C.	Wash.	Oregon	Alaska	Calif.	Idaho	No pins	Pin unreadable	Heads not recovered	Total no. heads delivered
1	3	4	-	40	-	-	11	1	12	71
2E	7	-	-	5	-	-	5	-	-	17
2W	6	2	-	3	-	-	-	-	3	14
3	-	-	-	1	-	-	-	-	-	1
4	1	-	-	1	-	-	1	1	-	4
5	1	-	-	-	-	-	2	-	-	3
1-5	18	6	-	50	-	-	19	2	15	110
6	2	-	-	-	-	-	1	-	-	3
7	7	-	-	1	-	-	5	-	3	16
8	2	1	-	1	-	-	-	-	-	4
9	3	-	-	-	-	-	-	-	-	3
10	8	-	-	1	-	-	7	-	4	20
11	102	16	-	2	-	-	24	1	25	170
12	1	-	-	-	-	-	-	-	-	1
6-12	125	17	-	5	-	-	37	1	32	217
25	146	125	7	-	-	-	38	3	26	345
26	75	53	1	1	-	-	18	15	16	179
27	69	21	3	-	-	-	15	1	17	126
25-27	290	199	11	1	-	-	71	19	59	650
21	123	246	17	-	-	-	49	5	32	472
23	165	288	15	1	-	-	61	8	60	598
24	118	117	8	1	-	-	38	3	54	339
21-24	406	651	40	2	-	-	148	16	146	1409
13	6	-	-	-	-	-	1	-	10	17
14	439	21	-	-	-	-	65	6	16	547
15	175	9	-	-	-	-	15	3	1	203
16	24	2	-	-	-	-	2	-	1	29
13-16	644	32	-	-	-	-	83	9	28	796
17	2	-	-	-	-	-	6	-	-	8
18	-	-	-	-	-	-	1	-	-	1
19	-	-	-	-	-	-	-	-	-	-
29	2	1	-	-	-	-	-	-	-	3
17-29	4	1	-	-	-	-	7	-	-	12

Table 6. 1985 West coast troll log program. Recovery of coded wire tags - coho.

	North coast area 1-5	Central coast area 6-12	Northwest Vancouver is. area 25-27	Southwest Vancouver is. area 21-24	North Georgia St. area 13-16	South Georgia St. area 17-29	Total
Total coho heads delivered:	110	217	650	1409	796	12	3194
No. coho heads not recovered:	15	32	59	146	28	0	280
No. coho heads with "no pin"	19	37	71	148	83	7	365
No. coho heads with pin "unreadable"	2	1	19	16	9	0	47
No. coho heads with readable pins:	74	147	501	1099	676	5	2502
Origin of tagged coho with readable pins:							
British Columbia	18	125	290	406	644	4	1487
U.S. Washington	6	17	199	651	32	1	906
U.S. Oregon	0	0	11	40	0	0	51
U.S. Alaska	50	5	1	2	0	0	58
U.S. California	0	0	0	0	0	0	0
U.S. Idaho	0	0	0	0	0	0	0
TOTAL	74	147	501	1099	676	5	2502
Percent Canadian tags:	24.3	85.0	57.9	36.9	95.3	80.0	
Percent U.S. tags:	75.7	15.0	42.1	63.1	4.7	20.0	

Table 7. 1985 West coast troll log program. Ages and mean fork lengths (cm) of recovered coded-wire tagged U.S. and Canadian chinook.

Stat. area		Age 2			Age 3			Age 4			Age 5			Age 6		
		No. fish	%	Mean length	No. fish	%	Mean length	No. fish	%	Mean length	No. fish	%	Mean length	No. fish	%	Mean length
1-5	B.C.	-	-	-	17	25.0	70.3	43	63.2	89.0	7	10.3	94.3	1	1.5	98.0
	U.S.	-	-	-	45	29.2	68.1	69	44.8	81.5	38	24.7	90.6	2	1.3	97.5
	Total	-	-	-	621	27.9	68.7	112	50.4	84.3	45	20.3	91.1	3	1.4	97.7
6-12	B.C.	-	-	-	10	27.8	72.2	22	61.1	89.5	3	8.3	90.3	1	2.8	108.0
	U.S.	-	-	-	1	4.6	67.0	16	72.7	80.3	5	22.7	91.6	-	-	-
	Total	-	-	-	11	19.0	71.7	38	65.5	85.6	8	13.8	91.1	1	1.7	108.0
25-27	B.C.	-	-	-	12	57.2	69.7	8	38.1	80.8	1	4.7	90.0	-	-	-
	U.S.	-	-	-	11	25.6	68.4	26	60.5	81.5	6	13.9	86.7	-	-	-
	Total	-	-	-	23	35.9	69.1	34	53.1	81.3	7	11.0	87.2	-	-	-
21-24	B.C.	-	-	-	23	48.9	67.4	24	51.1	81.3	-	-	-	-	-	-
	U.S.	-	-	-	59	50.9	66.7	52	44.8	73.3	5	4.3	78.4	-	-	-
	Total	-	-	-	82	50.3	66.9	76	46.6	75.8	5	3.1	78.4	-	-	-
13-16	B.C.	2	3.8	54.0	48	92.4	64.6	2	3.8	77.5	-	-	-	-	-	-
	U.S.	-	-	-	2	100.0	67.5	-	-	-	-	-	-	-	-	-
	Total	2	3.7	54.0	50	92.6	64.7	2	3.7	77.5	-	-	-	-	-	-
17-29	B.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	U.S.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 8. 1985 west coast troll log program. Mean fork length (cm) at age for coded-wire tagged chinook.

Stat. area	Age 2			Age 3			Age 4			Age 5			Age 6			Total		
	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length
1	-	-	-	27	23.9	70.1	63	55.7	83.4	21	18.6	89.9	2	1.8	97.5	113	100.0	81.7
2E	-	-	-	15	53.6	67.9	11	39.3	80.6	2	7.1	84.5	-	-	-	28	100.0	74.1
2W	-	-	-	17	22.1	67.9	38	49.3	86.9	21	27.3	92.9	1	1.3	98.0	77	100.0	84.5
3	-	-	-	1	100.0	65.0	-	-	-	-	-	-	-	-	-	1	100.0	65.0
4	-	-	-	2	66.7	65.0	-	-	-	1	33.3	91.0	-	-	-	3	100.0	73.7
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-5	-	-	-	62	27.9	68.7	112	50.4	84.3	45	20.3	91.1	3	1.4	97.7	222	100.0	81.5
6	-	-	-	2	18.2	76.5	6	54.5	84.7	3	27.3	91.7	-	-	-	11	100.0	85.1
7	-	-	-	4	16.0	71.0	17	68.0	88.9	3	12.0	87.0	1	4.0	108.0	25	100.0	86.6
8	-	-	-	-	-	-	1	50.0	100.0	1	50.0	90.0	-	-	-	2	100.0	95.0
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	5	25.0	70.4	14	70.0	81.1	1	5.0	103.0	-	-	-	20	100.0	79.5
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-12	-	-	-	11	19.0	71.7	38	65.5	85.7	8	13.8	91.0	1	1.7	108.0	58	100.0	84.2
25	-	-	-	15	44.4	68.5	12	55.6	81.3	-	-	-	-	-	-	27	100.0	74.2
26	-	-	-	5	19.2	69.8	14	53.9	80.8	7	26.9	87.1	-	-	-	26	100.0	80.4
27	-	-	-	3	27.3	70.7	8	72.7	74.0	-	-	-	-	-	-	11	100.0	73.1
25-27	-	-	-	23	35.9	69.0	34	53.2	81.3	7	10.9	87.1	-	-	-	64	100.0	77.5
21	-	-	-	15	83.3	67.1	3	16.7	87.3	-	-	-	-	-	-	18	100.0	70.5
23	-	-	-	46	46.9	66.4	49	50.0	76.1	3	3.1	77.3	-	-	-	98	100.0	71.6
24	-	-	-	21	44.7	68.0	24	51.1	73.8	2	4.2	80.0	-	-	-	47	100.0	71.5
21-24	-	-	-	82	50.3	66.9	76	46.6	75.8	5	3.1	78.4	-	-	-	163	100.0	71.4

Table 8 (cont'd)

Stat. area	Age 2			Age 3			Age 4			Age 5			Age 6			Total		
	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length	No.	%	Mean length
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	5	83.3	63.0	1	16.7	61.0	-	-	-	-	-	-	-	-	-
15	2	4.3	54.0	43	93.5	65.3	1	2.2	94.0	-	-	-	-	-	-	6	100.0	62.7
16	-	-	-	2	100.0	56.5	-	-	-	-	-	-	-	-	-	46	100.0	65.4
13-16	2	3.7	54.0	50	92.6	64.7	2	3.7	77.5	-	-	-	-	-	-	2	100.0	56.5
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	100.0	64.8
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17-29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 9. 1985 West coast troll log program - origin of B.C. coded-wire tagged CHINOOK.

Release site	area 1-5	area 6-12	area 25-27	area 21-24	area 13-16	area 17-29	Total
Queen Charlotte Islands							
Yakoun R.	1	-	-	-	-	-	1
King Cr.	1	-	-	-	-	-	1
Northcoast							
Copper R.	1	-	-	-	-	-	1
Babine R.	-	1	-	-	-	-	1
Kitimat R.	1	-	-	-	-	-	1
Hirsch R.	1	-	-	-	-	-	1
Central Coast							
Atnarko R.	1	1	-	-	-	-	2
West Coast Vanc. Is.							
Sooke R.	2	-	-	-	-	-	2
San Juan R.	1	1	1	-	-	-	3
Little Nitinat R.	4	1	1	-	-	-	6
Robertson Cr.	21	2	2	-	-	-	25
Nahmint R.	1	-	-	-	-	-	1
Thornton Cr.	-	1	-	-	-	-	1
Marble R.	1	-	-	-	-	-	1
Conuma R.	5	2	2	-	-	-	9
West Georgia Strait							
Cowichan R.	-	-	-	-	2	-	2
Chemainus R.	-	1	2	2	15	-	20
Nanaimo R.	-	-	-	-	1	-	1
Little Qualicum R.	2	2	-	1	9	-	14
Big Qualicum R.	2	-	2	-	4	-	8
Puntledge R.	5	-	-	-	2	-	7
Quinsam R.	18	14	-	-	3	-	35
Campbell R.	-	1	-	-	-	-	1
East Georgia Strait							
Pitt R.	-	1	-	-	-	-	1
Chilliwack R.	2	4	4	31	3	-	44
Chehalis R.	1	2	4	11	10	-	28
Harrison R.	-	2	2	2	-	-	6
Tenderfoot Cr.	-	-	-	-	1	-	1
Ashlu Cr.	-	-	-	-	2	-	2
Shovelnose Cr.	-	-	-	-	1	-	1
Capilano R.	-	-	1	-	1	-	2
	71	36	21	47	54	0	229

Table 10. 1985 West coast troll log program - origin of B.C. coded-wire tagged COHO.

Release site	area 1-5	area 6-12	area 25-27	area 21-24	area 13-16	area 17-29	Total
Queen Charlotte Islands							
Pallant Cr.	1	-	-	-	-	-	1
Mosquito Lake	3	-	-	-	-	-	3
Haans Cr.	2	-	-	-	-	-	2
North Coast	-	-	-	-	-	-	-
Central Coast							
Bella Coola R.	1	4	-	-	-	-	5
West Coast Vanc. Is.							
Little Nitinat R.	3	1	23	4	-	-	31
Thornton Cr.	-	20	35	5	-	-	60
Conuma R.	-	1	14	1	-	-	16
Robertson Cr.	1	4	35	13	-	-	53
San Juan R.	-	-	4	2	-	-	6
Kennedy R.	-	-	4	6	-	-	10
West Georgia Strait							
Quinsam R.	1	49	33	38	54	-	175
Puntledge R.	4	12	21	33	82	-	152
Millstone R.	-	1	2	6	3	-	12
Napoleon Cr.	-	-	2	4	3	-	9
Deadwood Cr.	-	1	5	2	-	-	8
Nanaimo R.	-	-	2	1	2	-	5
Comox Lake	-	-	-	-	1	-	1
Cruikshank	-	1	-	1	1	-	3
Big Qualicum R.	-	3	6	5	18	-	32
East Georgia Strait							
Weaver Cr.	-	2	5	8	9	-	24
Capilano R.	-	1	10	21	19	-	51
Chilliwack R.	-	5	27	74	208	-	314
Chehalis R.	-	5	8	23	21	-	57
Harrison R.	-	1	2	11	20	-	34
Lion Cr.	-	-	-	-	1	-	1
Birkenhead R.	-	-	-	1	-	-	1
Cheakamus R.	-	-	-	10	3	-	13
Seymour R.	-	-	1	3	1	-	5
Hicks-Maria Cr/Chehalis	-	-	1	5	25	1	32
Alouette R.	1	3	10	22	48	-	84
Tenderfoot Cr.	-	5	14	47	20	1	87
Dolly Varden Cr.	-	1	3	7	25	-	36
Nicomen Sl.	-	-	1	4	8	-	13
Loose Lake	1	4	1	-	-	-	6
Coho Cr.	-	1	13	24	15	-	53
Dunn Lake	-	-	-	2	-	1	3
McLean Bay	-	-	1	1	2	-	4
Inch Cr.	-	-	6	19	50	1	76
Shovelnose Cr.	-	-	1	3	5	-	9
TOTAL	18	125	290	406	644	4	1487

Table 11. 1985 West coast troll log program. Flesh colour of coded-wire tagged chinook.

Total no. of chinook graded for colour	No. "red" chinook	%	No. "white" chinook	%	No. readable pin in "white" chinook
601	551	91.7	50	8.3	44

Origin of "white" chinook:

Release sites	caught area 1-5	caught area 6-12	caught area 25-27	caught area 21-24	caught area 13-16	Total
Hirsch R.	1					1
Chilliwack R.	2	3	2	17	1	25
Chehalis R.	1	1		8	1	11
Harrison R.		1	2			3
Tenderfoot Cr.					1	1
Shovelnose Cr.					1	1
U.S. Alaska		1				1
U.S. Oregon		1				1
	4	7	4	25	4	44

Table 12. West coast troll log programs - comparison between years of average catch and time fished per boat.

	1984 Westcoast (outside)	1985 Westcoast (outside)	1985 Westcoast (inside)
Number of boats:	69	82	21
Chinook			
Kept:	44579	38122	8939
Per Boat:	646	465	426
Per Hour:	0.69	0.55	1.15
Coho			
Kept:	155777	136172	23240
Per Boat:	2258	1661	1107
Per Hour:	2.42	1.96	3.00
Sockeye			
Kept:	2581	59707	5125
Per Boat:	37	728	244
Per Hour:	0.04	0.86	0.66
Pink			
Kept:	92040	248621	8951
Per Boat:	1334	3032	426
Per Hour:	1.43	3.57	1.15
Chum			
Kept:	6562	37879	35
Per Boat:	95	462	2
Per Hour:	0.10	0.54	0.01
Total hours Fished in season:	64246.0	69572.0	7758.0
Total log days:	5081	5537	771
Average log days per boat:	74	68	37
Total hours per boat:	931	848	369
Average hours per day:	12.6	12.6	10.1

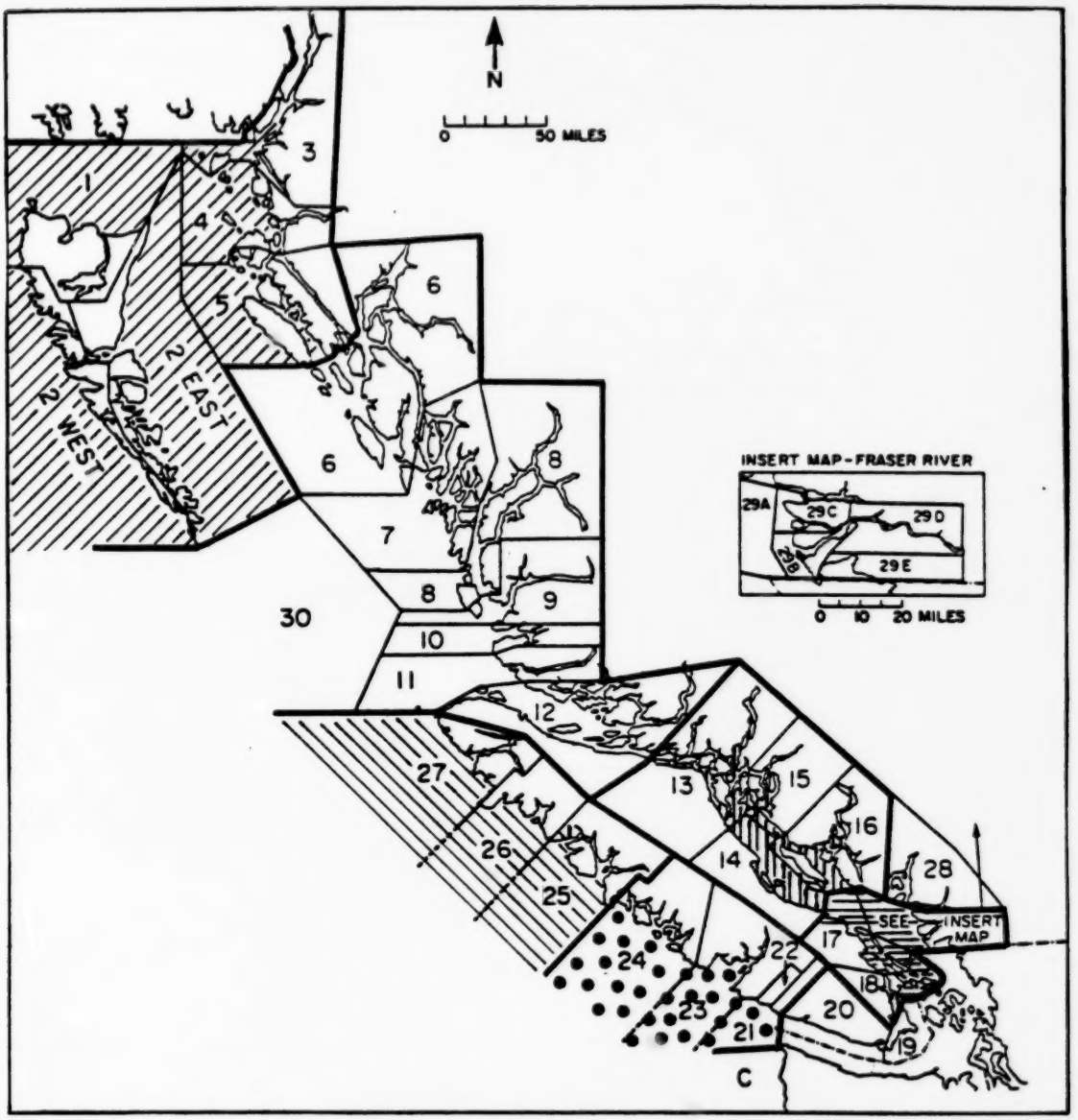

Fig. 1. Map of statistical areas of British Columbia indicating combined areas.

DEPARTMENT OF FISHERIES & OCEANS
PACIFIC BIOLOGICAL STATION
NANAIMO, BRITISH COLUMBIA

TROLL LOG

№ 36918

VESSEL: NORTHERN HAWK CFV NO. 12345

DATE: AUG. 18 1985 NO. HOURS FISHED: 14
(LINES IN THE WATER)

LOCATION FISHED: RAFAEL PT.

(GIVE 1 MAP LOCATION OR 1 LORAN POSITION (2 COORDINATES) FOR LOCATION FISHED MOST OF DAY)

NO. FISH KEPT:

CHINOOK	COHO	SOCKEYE	PINK	CHUM			
16	83	4	18	—			

ADIPOSE CLIPPED FISH:

FISH COLOUR FOR CHINOOK R = RED W = WHITE

SPECIES	FORK LENGTH CM.	STRAP TAG NO.	R OR W
CHIN	74	171 643	R
COHO	59	171 654	
COHO	61	171 651	
COHO	68	171 649	

SPECIES	FORK LENGTH CM.	STRAP TAG NO.	R OR W

REMARKS:

POD OF ABOUT 7 KILLER WHALES AT 11:15 AM HEADING SOUTH.

Fig. 2. Example of daily log sheet from 1985 Troll Log Program.

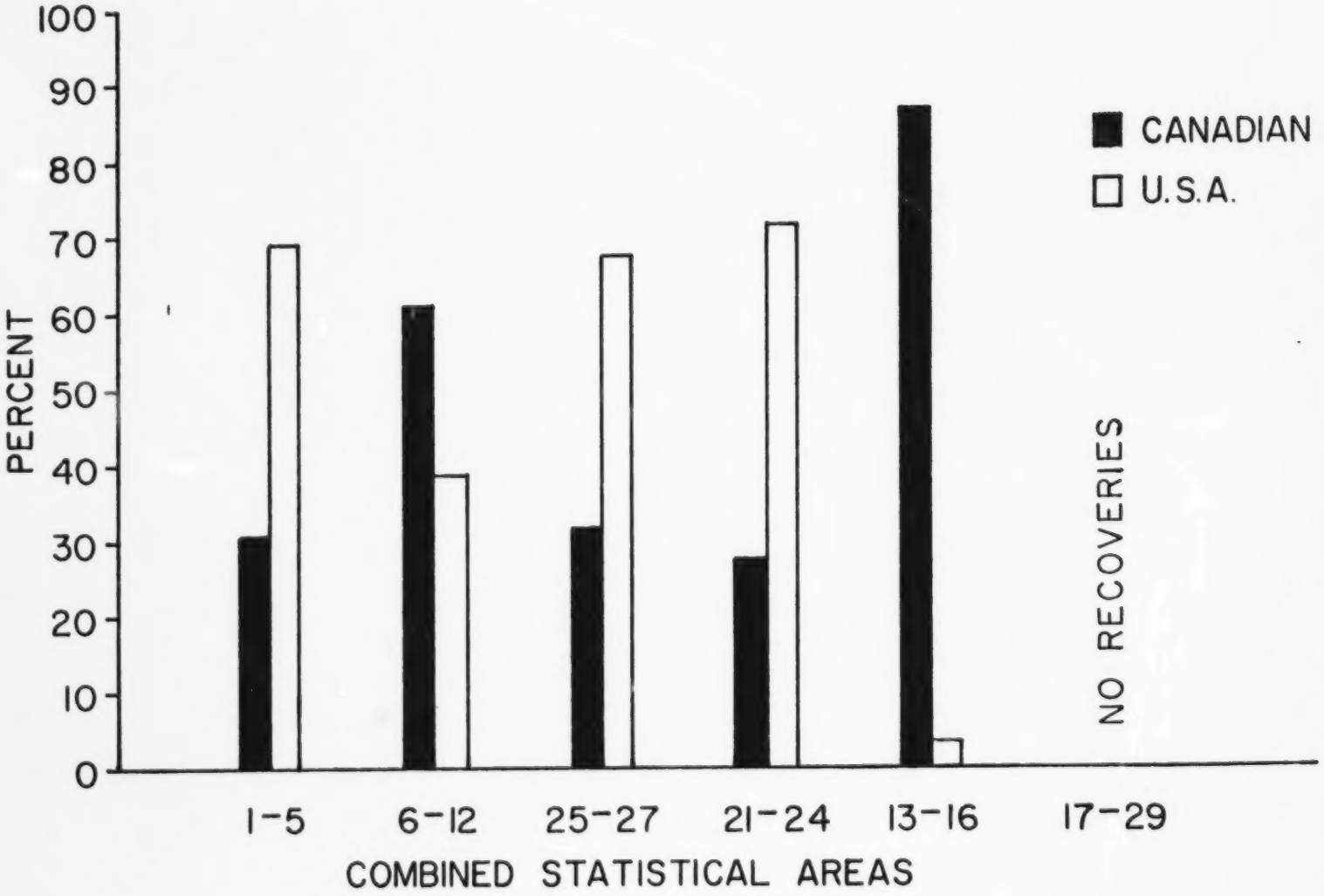

Fig. 3. 1985 West Coast Troll Log Program. Percentages of Canadian and U.S. recoveries of coded-wire tagged CHINOOK.

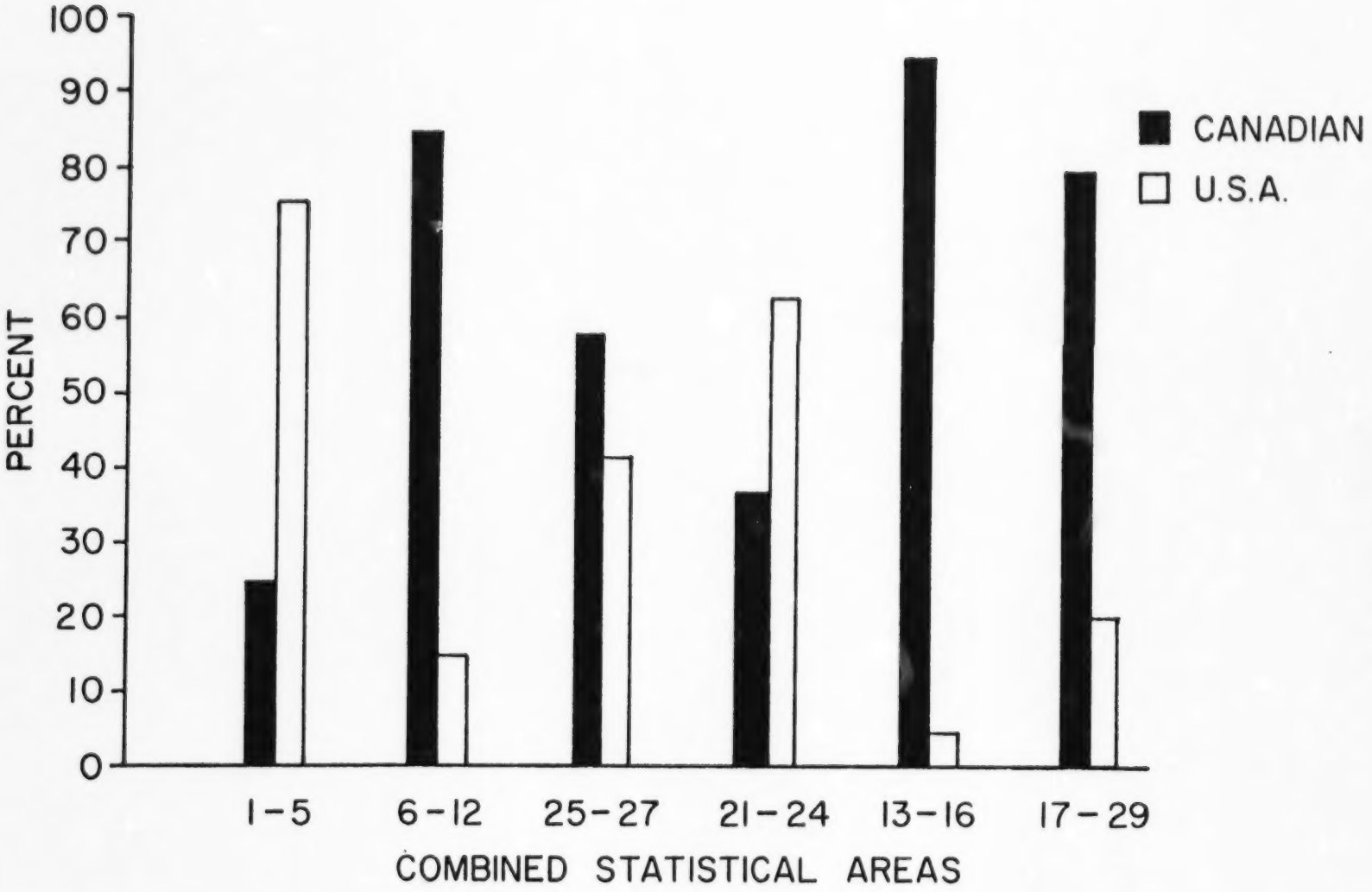

Fig. 4. 1985 West Coast Troll Log Program. Percentages of Canadian and U.S. recoveries of coded-wire tagged COHO.

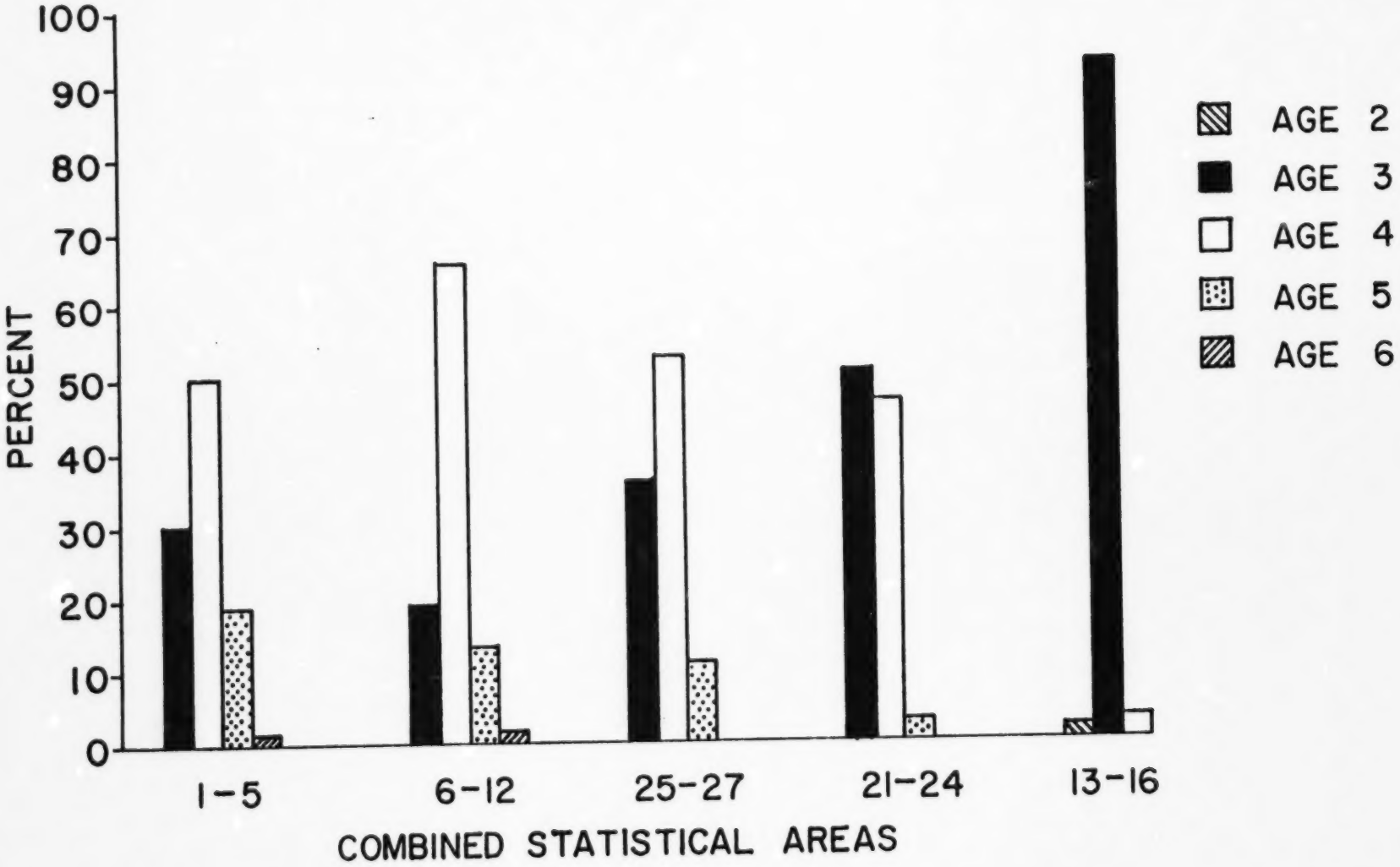

Fig. 5. 1985 West Coast Troll Log Program. Percentages of ages in recovered coded-wire tagged CHINOOK.

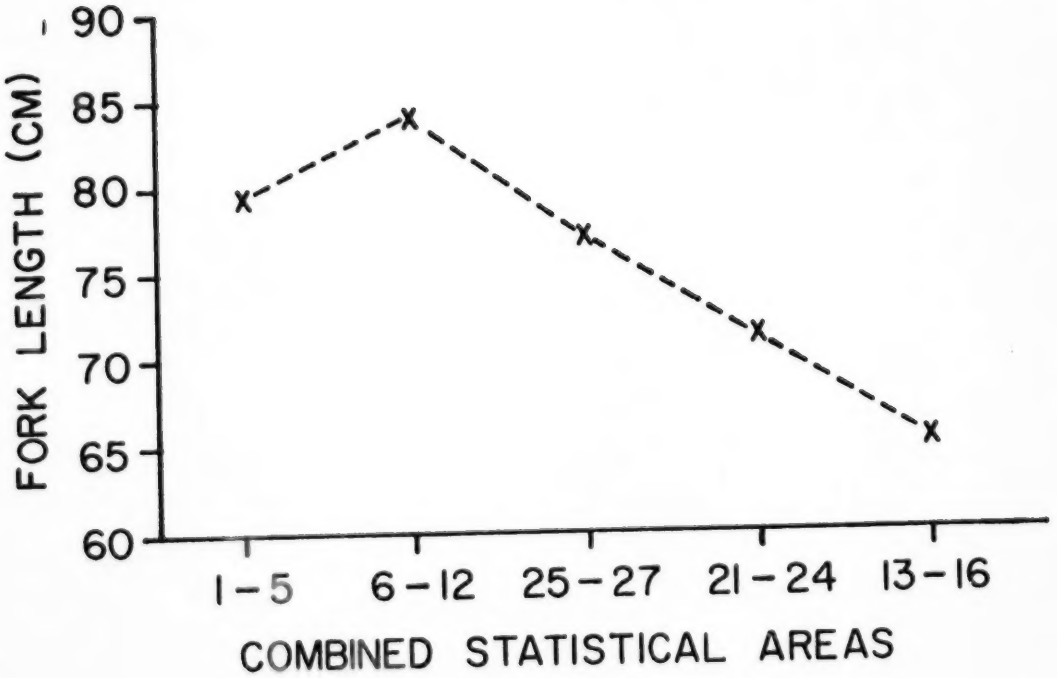

Fig. 6. 1985 West Coast Troll Log Program. Mean fork length (cm) of recovered coded-wire tagged CHINOOK.

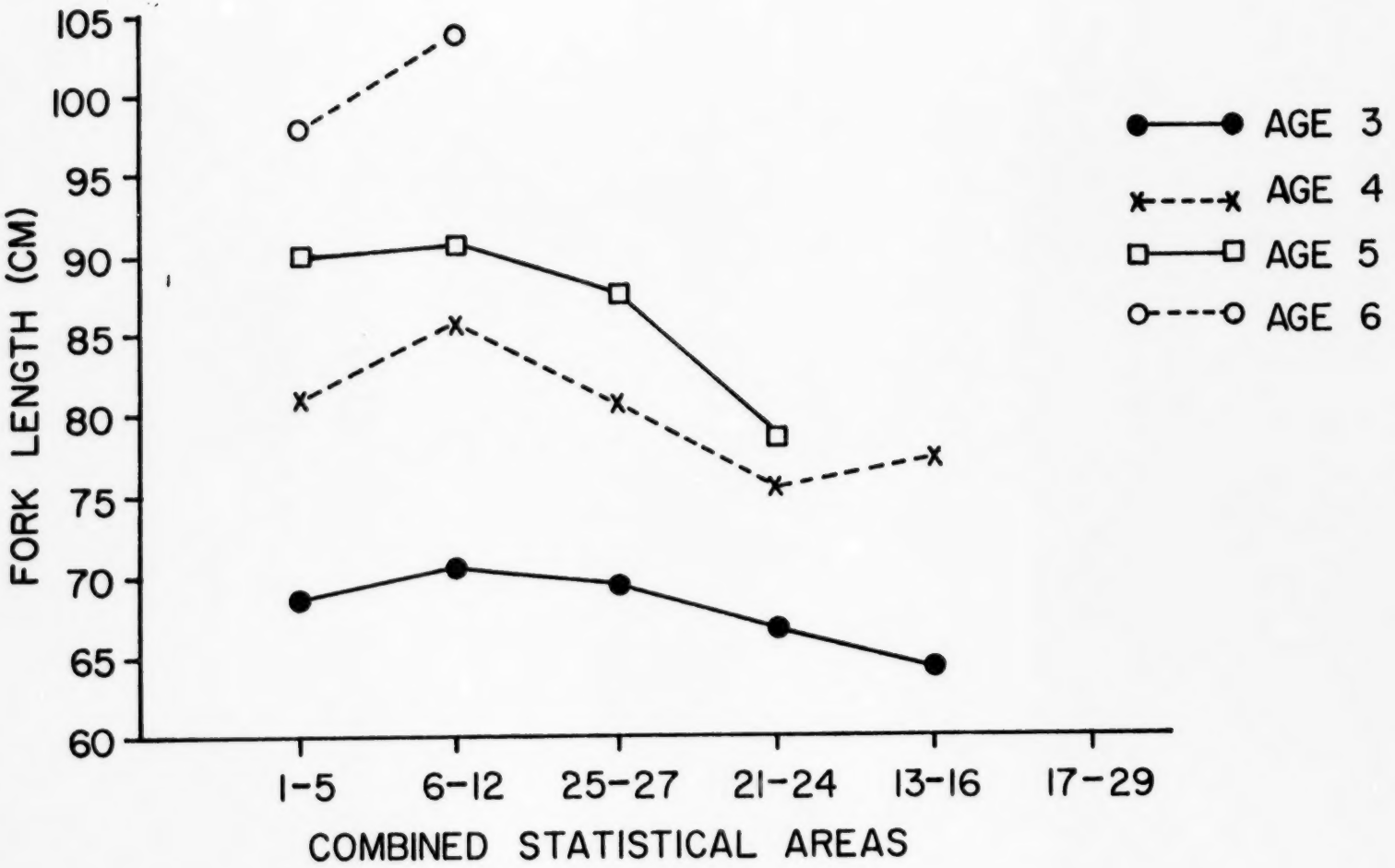

Fig. 7. 1985 West Coast Troll Log Program. Mean fork length (cm) of age of coded-wire tagged CHINOOK.

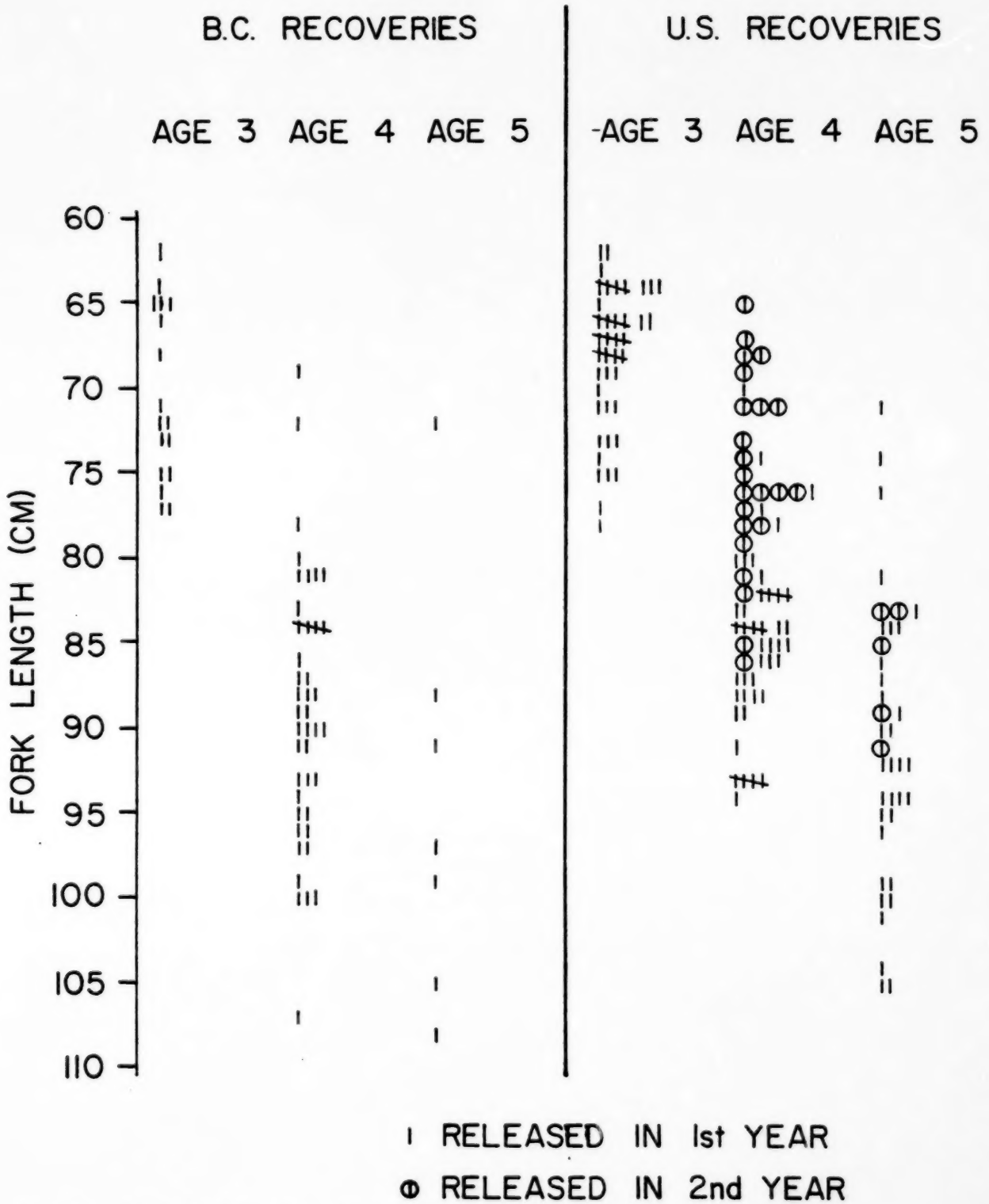

Fig. 8. 1985 West Coast Troll Log Program. Overlap of fork length in different ages of coded-wire tagged CHINOOK recovered in Statistical Areas 1-5.